

**IN THE ABSTRACT:**

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## ABSTRACT

### METHOD FOR RADIO SYSTEM RESOURCE MANAGEMENT

Radio system resource management is provided in a cellular radio communication network like a multiple-carrier network. Information is transmitted on at least one frequency range consisting of a plurality of sub-carriers. The sub-carriers of the frequency range are temporarily made available to each cellular radio for transmitting information. The sub-carriers of the frequency range are temporarily assigned to a given number of cellular radios in such a way that each assigned sub-carrier is made available to a set of the cellular radios for information transmission. In the transmission framework, the assignment of information necessary for a transmission decision reduces the signalling complexity to a single symbol OFDM, thereby reducing interferences and increasing spectrum efficiency.